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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,817	04/21/2004		Latifa Abdennebi-Najar	05032-00054	7701
22910 7590 01/13/2006			EXAMINER		
BANNER &		OFF, LTD.	WORLEY, CATHY KINGDON		
28th FLOOR				ART UNIT	PAPER NUMBER
BOSTON, M	IA 02109	9-9601	1638		

DATE MAILED: 01/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/828,817	ABDENNEBI-NAJAR ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Cathy K. Worley	1638			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
A SHO WHIC - Exter after - If NO - Failu Any o	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. hely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) ☐ 3) ☐ Dispositi 4) ☑ 5) ☐ 6) ☐	Responsive to communication(s) filed on 21 April 2004. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. sition of Claims Claim(s) 1-9 and 11-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) is/are rejected.					
8)⊠	Claim(s) is/are objected to. Claim(s) <u>1-9 and 11-21</u> are subject to restriction on Papers	n and/or election requirement.				
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

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- I. Claims 1-9 and 11-13, as they relate to thyroid stimulating hormone, drawn to a plant comprising a cell comprising a functional mammalian enzyme or functional fragment thereof providing N-glycan biosynthesis additionally having been provided with an expression vector comprising a nucleic acid encoding a thyroid stimulating hormone (TSH) or functional fragment thereof, classified in class 800, subclass 288, for example.
- II. Claims 14-16 and 18-19 and 21, as they relate to TSH, drawn to a plant-derived TSH or functional fragment thereof comprising an extended N-linked glycan at least comprising galactose, the use of said TSH for the production of a pharmaceutical composition, and a pharmaceutical composition comprising said TSH, classified in class 530, subclass 397, for example.
- III. Claims 1-9 and 11-13, as they relate to gonadotrophin-receptor, drawn to a plant comprising a cell comprising a functional mammalian enzyme or functional fragment thereof providing N-glycan biosynthesis additionally having been provided with an expression vector

comprising a nucleic acid encoding a gonadotrophin-receptor or functional fragment thereof, classified in class 800, subclass 288, for example.

IV. Claims 14-21, as they relate to gonadotrophin-receptor, drawn to a plant-derived gonadotrophin-receptor or functional fragment thereof comprising an extended N-linked glycan at least comprising galactose, the use of said gonadotrophin-receptor for the production of a pharmaceutical composition, and a pharmaceutical composition comprising said gonadotrophin-receptor, classified in class 530, subclass 397, for example.

The inventions are distinct, each from the other because of the following reasons:

The inventions of groups I and II are patentably distinct. The plant of group I can be made without using the protein or composition of group II, and the protein of group II can be made without using the plant of group I, for example, the protein of group II can be made in CHO cells.

A search for the plant of group I will require searching the literature for molecular farming techniques and bioengineering of plant-derived glycoproteins. A search for the protein and composition of group II will require searching in the literature for extraction and fractionation of proteins wherein the fractions may contain TSH and for use of TSH in pharmaceutical compositions. These searches are not coextensive; therefore examining both inventions would constitute an undue

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burden. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

The inventions of groups I-II are patentably distinct from the inventions of groups III and IV. The inventions of groups I-II are related to TSH, whereas the inventions of groups III and IV are related to gonadotrophin-receptor. These are different proteins with their own unique amino acid sequence and structure, and therefore, they are patentably distinct.

A search for the plant of group I or the protein and composition of group II would require searching the literature for information about TSH, whereas a search for the plant of group III or protein and composition of group IV would require searching the literature for information about gonadotrophin-receptor.

These searches are not coextensive; therefore examining both inventions would constitute an undue burden. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

The inventions of groups III and IV are patentably distinct. The plant of group III can be made without using the protein or composition of group IV, and the protein of group IV can be made without using the plant of group III, for example, the protein of group IV can be made in CHO cells.

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A search for the plant of group III will require searching the literature for molecular farming techniques and bioengineering of plant-derived glycoproteins and receptors. A search for the protein and composition of group IV will require searching in the literature for extraction and fractionation of proteins wherein the fractions may contain gonadotrophin-receptor and for use of gonadotrophin-receptor in pharmaceutical compositions. These searches are not coextensive; therefore examining both inventions would constitute an undue burden. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A call was made on Dec. 27, 2005 to TaskBritt, P. C. (the attorney's office) to request an oral election to the above restriction requirement, but he/she was unable to answer the phone. A message was left with Betty Vowles indicating that if an election was not made by phone by Friday, Dec. 30, 2005, then the restriction requirement would be sent in the mail. No telephone call was received by the end of the day on Dec. 30, 2005, therefore, the restriction requirement was sent in the mail.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy K. Worley whose telephone number is (571) 272-8784. The examiner can normally be reached on M·F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CKW 12/27/05